

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of introducing a flowable orthopedic calcium phosphate cement composition to a cancellous bone target bone site, said method comprising:

delivering said flowable orthopedic cement composition to said target bone site in conjunction with vibration in a manner such that said vibration provides for controlled penetration of said flowable cement composition into said cancellous bone without use of substantial pressure and penetration of said cement into said cancellous bone stops **substantially** simultaneously with cessation of said vibration.

2. (Original) The method according to Claim 1, wherein said target bone site is part of a reduced fracture.

3.-5. (Cancelled)

6. (Previously Presented) The method according to Claim 1, wherein said method further comprises aspirating marrow from said cancellous bone.

7. (Previously Presented) The method according to Claim 1, wherein said target bone site comprises cancellous bone of a vertebral body.

8. (Original) The method according to Claim 1, wherein said vibration is provided by applying vibratory force to a flowable composition introduction element of a delivery device for said cement.

9. (Original) The method according to Claim 8, wherein said flowable composition introduction element is a needle.

10. (Original) The method according to Claim 9, wherein said delivery device comprises a vibratory element for vibrating said needle.

11. (Currently Amended) A method of introducing a flowable orthopedic cement composition into a vertebral body, said method comprising:

delivering said flowable calcium phosphate cement composition to said target bone site in conjunction with vibration in a manner such that said vibration provides for controlled penetration of said flowable cement composition into cancellous bone of said vertebral body without use of substantial pressure and penetration of said cement into said cancellous bone stops ~~substantially~~ simultaneously with cessation of said vibration.

12.- 30. (Cancelled)

31. (Previously Presented) The method according to Claim 11, wherein said method further comprises removing marrow from said vertebral body.

32. (Previously Presented) The method according to Claim 11, wherein said vibration is provided by applying vibratory force to a flowable composition introduction element of a delivery device for said cement.

33. (Previously Presented) The method according to Claim 32, wherein said flowable composition introduction element is a needle.

34. (Previously Presented) The method according to Claim 32, wherein said delivery device comprises a vibratory element for vibrating said needle.

35. (Previously Presented) The method according to Claim 34, wherein said vibratory element is a pneumatic vibratory element.

36. **(Currently Amended)** A method of introducing a flowable orthopedic calcium phosphate cement composition to a cancellous bone target bone site, said method comprising:

delivering said flowable orthopedic cement composition to said target bone site in conjunction with vibration in a manner such that said vibration provides for controlled penetration of said flowable cement composition into said cancellous bone without use of substantial pressure to produce a cancellous bone/cement composite structure, wherein penetration of said cement into said cancellous bone stops **substantially** simultaneously with cessation of said vibration.

37. **(Previously Presented)** The method according to Claim 36, wherein said target bone site is part of a reduced fracture.

38. **(Previously Presented)** The method according to Claim 36, wherein said target bone site comprises cancellous bone of a vertebral body.

39. **(Previously Presented)** The method according to Claim 38, wherein said method results in about 4 to 10 cubic centimeters of said cement being injected into each side of said vertebral body.

40. **(Previously Presented)** The method according to Claim 36, wherein said vibration is provided by applying vibratory force to a flowable composition introduction element of a delivery device for said cement.

41. **(Previously Presented)** The method according to Claim 40, wherein said flowable composition introduction element is a needle.

42. **(Previously Presented)** The method according to Claim 41, wherein said delivery device comprises a vibratory element for vibrating said needle.

43. (Previously Presented) The method according to Claim 36, wherein said method provides for greater amounts of cement to be delivered to said target site with less pressure as compared to a control method in which vibration is not employed.

Please add the following new claims:

44. (New) The method according to Claim 1, wherein any pressure applied to said cement during delivery does not exceed about 100 psi.

45. (New) The method according to Claim 44, wherein any pressure applied to said cement during delivery ranges from about 1 to about 100 psi.